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PATENT

Serial No. 10/524,076

Amendment in Reply to Office Action mailed on May 24, 2006

IN THE SPECIFICATION

Please amend the specification as follows:

Replace the paragraph on page 3, between lines 25-31 of the specification with the following:

This object is achieved by providing a method ~~according to claim 1, which is characterized in that~~ where, when a mark is recorded by a sequence of two or more write pulses, at least one of the write pulses in ~~said the~~ sequence of two or more write pulses other than the first write pulse in ~~said the~~ sequence consists of n portions, n being an integer number larger than 1, the i-th portion having an i-th write power level, i being an integer number in the range between 1 and n, the i-th portion preceding the (i+1)-th portion, and in that the i-th write power level is lower than the (i+1)-th write power level.

Replace the paragraph spanning pages 3-4, between page 3, line 32, and page 4, line 2 of the specification with the following:

This object of the invention is alternatively achieved by

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~~providing a method according to claim 5, which is characterized in~~
~~that where at least one of the write pulses in said the sequence of~~
one or more write pulses comprises a front portion having a write
~~power level which is a function of time, and in that said the write~~
power level continuously increases.

Replace the paragraph on page 5, between lines 20-25 of the
specification with the following:

In the ~~one~~ method according to ~~claim 1~~ at least one write
pulse in a sequence of write pulses other than the first write
pulse in the sequence is divided into portions, such that the write
power levels of the portions increase from the first portion to the
last portion. This build-up of write power in a single write pulse
ensures a momentary temperature in the phase-change layer above the
recording temperature without a surplus of heat being accumulated.

Replace the paragraph spanning pages 5-6, between page 5, line
26, and page 6, line 2 of the specification with the following:

In a ~~version of the another~~ method according to ~~claim 2~~ also
the first write pulse in a sequence of write pulses is divided into

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portions, such that the write power levels of the portions increase from the first portion to the last portion. It is to be noted that US patent 5,732,062 discloses a sequence of write pulses wherein a front portion is added to the first write pulse, the power level of this front portion being lower than the power level of the remainder of the first write pulse. Fig. 38 of US patent 5,732,062 shows a sequence of just a single write pulse having the front portion added to the first, and only, write pulse. However, as opposed to the method according to the present invention, which aims to reduce the heat in the phase-change layer, this front portion is applied to add heat to the phase-change layer at the beginning of a sequence of write pulses, thus introducing a pre-heat effect.

Replace the paragraph on page 6, between lines 21-27 of the specification with the following:

~~In the method according to claim 5 another method~~ the build-up of write power is achieved by a write pulse having at least a front portion in which the write power level continuously increases. Subsequent portions may, for example, also have continuously

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increasing write power levels, thus resulting in a single write pulse having a continuously increasing write power level.

Alternatively, subsequent portions may have discrete write power levels, resulting in a write pulse consisting of a front portion having a continuously increasing write power level and subsequently one or more portions having a constant write power level.

Replace the paragraph on page 6, between lines 21-27 of the specification with the following:

It is a further object of the present invention to provide a recording apparatus capable of carrying out a method according to the invention. ~~This object is achieved by providing a recording apparatus according to claim 8. This object is alternatively achieved by providing a recording apparatus according to claim 10.~~

Replace the paragraph on page 8, between lines 13-14 of the specification with the following:

~~Figure 1 shows~~ Figures 1a-1c show diagrams of the time-dependency of a data signal and of control signals for controlling the power of the radiation beam,

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Replace the paragraph on page 8, between lines 15-16 of the specification with the following:

~~Figure 2 shows~~ Figures 2a-2b show cross-sectional views of an information layer of a dual layer record carrier having a mark recorded on it,

Replace the paragraph on page 8, between lines 17-18 of the specification with the following:

~~Figure 3 and Figure 4~~ Figures 3a-3c and figures 4a-4b show diagrams of the time-dependency of control signals for controlling the power of the radiation beam according to alternative embodiments,

Replace the paragraph on page 8, between lines 19-20 of the specification with the following:

~~Figure 5 shows~~ Figures 5a-5b show cross-sectional views of an information layer of a high speed record carrier having a mark recorded on it,

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Replace the paragraph on page 8, between lines 21-23 of the specification with the following:

~~Figure 6 shows~~ Figures 6a-6b show diagrams of the time-dependency of a data signal and of a control signal for controlling the power of the radiation beam according to an alternative embodiment, and

Replace the paragraph on page 8, between lines 24-26 of the specification with the following:

~~Figure 7 shows~~ Figures 7a-7c show diagrams of the time-dependency of a data signal and of control signals for controlling the power of the radiation beam according to alternative embodiments applying a direct overwrite (DOW) procedure.